

Form PTO-1449 (modified)		Atty. Docket No. MXGN:005USC2/SLH	Serial N. 09/813,444
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Brent Iverson <i>et al.</i>	
		Filing Date: March 20, 2001	Group: 1646
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U.S. Patent Documents

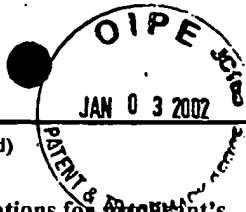
Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
PTD	A1	Re. 34,606	05/10/94	Estell <i>et al.</i>			
	A2	3,791,932 ✓	2/12/74	Schuurs <i>et al.</i>	195	103.5	1/27/72
	A3	3,949,064	4/6/76	Bornstein <i>et al.</i>	424	1	10/26/73
	A4	4,034,074	07/05/77	Miles			
	A5	4,166,767	09/04/79	Kurooka <i>et al.</i>			
	A6	4,174,384	11/13/79	Ullman <i>et al.</i>	424	8	10/12/76
	A7	4,496,658	01/29/85	Kondo <i>et al.</i>			
	A8	4,596,792	6/24/86	Vyas	514	21	3/30/84
	A9	4,599,230 ✓	7/8/86	Milich <i>et al.</i>	424	89	3/9/84
	A10	4,601,903 ✓	7/22/86	Frasch	424	92	5/1/85
	A11	4,608,251 ✓	8/26/86	Mia	424	85	11/9/84
	A12	4,748,119	05/31/88	Rich <i>et al.</i>			
	A13	4,760,025	07/26/88	Estell <i>et al.</i>			
	A14	4,873,192	10/10/89	Kunkel			
	A15	4,918,162	4/90	Slamon <i>et al.</i>	530	324	
	A16	4,952,501	8/90	Jasin <i>et al.</i>	435	69.2	
	A17	4,959,312	09/25/90	Sirotkin			
	A18	5,081,030	1/92	Civin	435	240.2	
	A19	5,093,240	03/03/92	Inouye <i>et al.</i>			
	A20	5,223,409	06/29/93	Ladner <i>et al.</i>			
	A21	5,264,365 ✓	5,264,365	Georgiou <i>et al.</i>	435	252.8	11/9/90
	A22	5,348,867	09/20/94	Georgiou <i>et al.</i>			
PTD	A23	5,403,484 ✓	4/4/95	Ladner <i>et al.</i>	435	235.1	1/26/93

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PTD	A24	5,441,882	08/15/95	Estell <i>et al.</i>			
	A25	5,445,935 ✓	8/29/95	Royer	435	6	11/23/92
	A26	5,541,309 ✓	7/30/96	Prasher	536	23.2	10/28/94
	A27	5,550,045	8/96	Musters <i>et al.</i>	435	201	
	A28	5,599,231 ✓	2/4/97	Hibino <i>et al.</i>	463	29	10/31/94
	A29	5,605,793 ✓	2/25/97	Stemmer	435	6	2/17/94
	A30	5,672,490	9/97	Sessler <i>et al.</i>	435	91.1	
	A31	5,723,323	03/03/98	Kauffman <i>et al.</i>			
	A32	5,733,541	03/31/98	Taichman <i>et al.</i>			
	A33	5,744,302	4/98	Sessler <i>et al.</i>	435	6	
	A34	5,763,192	06/09/98	Kauffman <i>et al.</i>			
	A35	5,811,238 ✓	9/22/98	Stemmer <i>et al.</i>	435	6	11/30/95
	A36	5,830,696 ✓	11/3/98	Short	435	69.1	12/5/96
	A37	5,830,721 ✓	11/3/98	Stemmer <i>et al.</i>	435	172.1	2/17/95
	A38	5,843,701	12/98	Gold <i>et al.</i>	435	68.1	
	A39	5,866,344 ✓	2/2/99	Georgiou	435	7.21	5/23/95
	A40	5,939,250 ✓	8/17/99	Short	435	4	5/22/96
	A41	5,958,672 ✓	9/28/99	Short	435	4	6/3/96
	A42	5,965,408 ✓	10/12/99	Short	435	91.1	7/9/96
	A43	6,001,574 ✓	12/14/99	Short <i>et al.</i>	435	6	3/4/98
	A44	6,004,788 ✓	12/21/99	Short	435	183	7/18/95
	A45	6,015,561	1/00	Alvarez	424	155.1	
PTD	A46	6,030,779 ✓	2/29/00	Short	435	6	10/6/97

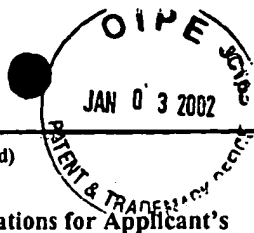
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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)



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PTD	A47	6,054,267	4/25/00	Short	435	6	8/2/96
	A48	6,057,103	5/2/00	Shrot	435	6	8/26/97
	A49	6,107,059	8/00	Hart	435	69.7	
	A50	6,117,679	9/12/00	Stemmer	435	440	3/25/96
	A51	6,132,970	10/17/00	Stemmer	435	6	6/19/98
	A52	6,165,793	12/26/00	Stemmer	435	440	5/8/98
	A53	6,168,919 B1	1/2/01	Short	435	6	7/17/96
	A54	6,171,820 B1	1/9/01	Short	435	69.1	2/4/99
	A55	6,174,673 B1	1/16/01	Short <i>et al.</i>	435	6	6/16/98
PTD	A56	6,180,406 B1	1/30/01	Stemmer	435	440	6/17/98

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
PTD	B1	EP 0285123	10/05/88	Europe			
	B2	EP 0095361	11/30/83	Europe			
PTD	B3	WO 94/26787	11/24/94	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

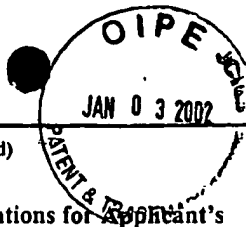
Exam. Init.	Ref. Des.	Citation
PTD	C1	Agterberg <i>et al.</i> , "Outer-membrane PhoE protein of <i>Escherichia coli</i> K-12 as an exposure vector: possibilities and limitations," <i>Gene</i> 88:37-45, 1990
PTD	C2	Aiyar and Leis, "Modification of the Megaprimer Method of PCR Mutagenesis: Improved Amplification of the Final Product," <i>BioTechniques</i> , 14(3):366, 1993.

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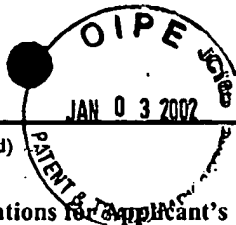
Exam. Init.	Ref. Des.	Citation
PTD	C3	Amaravadi and King, "A rapid and efficient, nonradioactive method for screening recombinant DNA libraries," <i>BioTech.</i> , 16(1):98-103, 1994.
	C4	Baneyx and Georgiou, "In vivo degradation of secreted fusion proteins by the <i>Escherichia coli</i> outer membrane protease OmpT," <i>J. Bacteriol.</i> , 172:491-494, 1990.
	C5	Barbas and Lerner, "Combinatorial Immunoglobulin libraries on the surface of phage (Phabs): Rapid selection of antigen-specific fabs," <i>Methods: A companion to Methods in Enzymology</i> , 2(2):119-124, 1991.
	C6	Barbas III <i>et al.</i> , "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>Proc. Natl. Acad. Sci. USA</i> , 88:7978-7982, September 1991.
	C7	Barbas III <i>et al.</i> , "Semisynthetic combinatorial antibody libraries: A chemical solution to the diversity problem," <i>Proc. Natl. Acad. Sci. USA</i> , 89:4457-4461, May 1992.
	C8	Barbas, "Recent advances in phage display," <i>Curr. Opin. BioTech.</i> , 4(5):526-530, 1993.
	C9	Bardwell <i>et al.</i> , "Identification of a protein required for disulfide bond formation in vivo," <i>Cell</i> , 67:581-589, 1991.
	C10	Bathurst, "Protein expression in yeast as an approach to production of recombinant malaria antigens," <i>Am. J. Trop. Med. Hyg.</i> , 50(4 Suppl):20-26, 1994.
	C11	Beher, "Correlation between the expression of an <i>Escherichia coli</i> cell surface protein and the ability of the protein to bind to lipopolysaccharide," <i>J. Bacteriol.</i> , 143(1):403-410, 1980.
	C12	Bender <i>et al.</i> , "Recombinant human antibodies: linkage of an Fab fragment from a combinatorial library to an Fc fragment for expression in mammalian cell culture," <i>Hum. Antibodies Hybridomas</i> , 4(2):74-79, 1993.
	C13	Better <i>et al.</i> , " <i>Escherichia coli</i> Secretion of an Active Chimeric Antibody Fragment," <i>Science</i> , 240:1041-1043, May 1988.
	C14	Bird <i>et al.</i> , "Single-chain antigen-binding proteins," <i>Science</i> , 242:423-426, 1988.
	C15	Blackburn <i>et al.</i> , "Electrochemiluminescence detection for development of immunoassays and DNA probe assays for clinical diagnostics," <i>Clinical Chemistry</i> , 37(9):1534-1539, 1991.
PTD	C16	Boder and Wittrup, "Yeast surface display for screening combinatorial polypeptide libraries," <i>Nat. Biotechnol.</i> , 15(6):553-557, 1997.

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Exam. Init.	Ref. Des.	Citation
PTD	C17	Bolivar <i>et al.</i> , "Construction and characterization of new cloning vehicles. II a multipurpose cloning system," <i>Gene</i> , 2:95-113, 1977.
	C18	Bosch <i>et al.</i> , "Periplasmic accumulation of truncated forms of outer-membrane PhoE protein of <i>Escherichia coli</i> K-12," <i>J. Mol. Biol.</i> , 189:449-455, 1986.
	C19	Bosch <i>et al.</i> , "The role of the carboxy-terminal membrane-spanning fragment in the biogenesis of <i>Escherichia coli</i> K12 outer membrane protein PhoE," <i>Mol Gen Genet</i> , 216:144-148, 1989.
	C20	Boss <i>et al.</i> , "Assembly of functional antibodies from immunoglobulin heavy and light chains synthesised in <i>E. Coli</i> ," <i>Nucl. Acids Res.</i> , 12(9):3791-3807, 1984.
	C21	Breitling <i>et al.</i> , "A surface expression vector for antibody screening," <i>Gene</i> , 104:147-153, 1991.
	C22	Breyer and Sauer, "Mutational analysis of the fine specificity of binding of monoclonal antibody 51F to λ repressor," <i>J. Biol. Chem.</i> , 264(22):13355-13360, 1989.
	C23	Brown, "Engineered iron oxide-adhesion mutants of the <i>Escherichia coli</i> phage λ receptor," <i>Proc. Natl. Acad. Sci. USA</i> , 89:8651-8655, 1992.
	C24	Buckholz, "Yeast systems for the expression of heterologous gene products," <i>Curr. Opin. Biotechnol.</i> , 4(5):538-542, 1993.
	C25	Buell <i>et al.</i> , "Optimizing the expression in <i>E. coli</i> of a synthetic gene encoding somatomedin-C (IGF-I)," <i>Nucl. Acids Res.</i> , 13(6), 1985.
	C26	Burks <i>et al.</i> , "In vitro Scanning Saturation Mutagenesis of an Antibody Binding Pocket," <i>Proc. Natl. Acad. Sci.</i> , 94:412-417, 1997.
	C27	Cabilly <i>et al.</i> , "Generation of antibody activity from immunoglobulin polypeptide chains produced in <i>E. Coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 81:3273-3277, 1984.
	C28	Caton and Koprowski, "Influenza virus hemagglutinin-specific antibodies isolated from a combinatorial expression library are closely related to the immune response of the donor," <i>Proc. Natl. Acad. Sci. USA</i> , 87:6450-6454, 1990.
	C29	Chang <i>et al.</i> , "Phenotypic expression in <i>E. coli</i> of a DNA sequence coding for mouse dihydrofolate reductase," <i>Nature</i> , 275:617-624, 1978.
PTD	C30	Chang <i>et al.</i> , "Membrane biogenesis: Cotranslational integration of the bacteriophage f1 coat protein into an <i>E. Coli</i> membrane fraction," <i>Proc. Natl. Sci. USA</i> , 76:1251-1255, 1979.

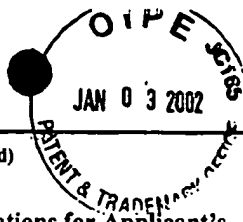
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PTD	C31	Charbit <i>et al.</i> , "Versatility of a vector for expressing foreign polypeptides at the surface of Gram-negative bacteria," <i>Gene</i> 70:181-189, 1988.
	C32	Charbit <i>et al.</i> , "Permissive sites and topology of an outer membrane protein with a reporter epitope," <i>J. Bact.</i> , 173(1):262-275, 1991.
	C33	Charles and Dougan, "Gene expression and the development of live enteric vaccines," <i>Trends in Biotechnology</i> , 8:117-121, 1990.
	C34	Chen <i>et al.</i> , "A quantitative immunoassay utilizing <i>E. coli</i> cells possessing surface-expressed single chain Fv molecules," <i>BioTech. Prog.</i> , 12:572-574, 1996.
	C35	Chiang <i>et al.</i> , "Direct cDNA cloning of the rearranged immunoglobulin variable region," <i>BioTechniques</i> , 7(4):360-366, 1989.
	C36	Chiswell and McCafferty, "Phage antibodies: will new 'coliclonal' antibodies replace monoclonal antibodies?", <i>Tibtech</i> , 10:80-84, 1992.
	C37	Clackson <i>et al.</i> , "Making antibody fragments using phage display libraries," <i>Nature</i> , 352:624-628, August 1991.
	C38	Colizzi <i>et al.</i> , "Analysis of Mycobacterium tuberculosis genoma and production of a recombinant protein containing specific B and T cell antigenic determinants -- new approaches to second generation antituberculosis vaccines," <i>Z Erkr Atmungsorgane</i> , 172(1):40-52, 1989.
	C39	Cornelis <i>et al.</i> , "Development of new cloning vectors for the production of immunogenic outer membrane fusion proteins in <i>Escherichia coli</i> ," <i>Bio/Technology</i> , 14:203-208, 1996.
	C40	Cryz, "Live attenuated vaccines for human use," <i>Curr. Opin. BioTech.</i> , 3(3):298-302, 1992.
	C41	Danziger <i>et al.</i> , "Simultaneous gene amplification and gene detection using three PCR primers," <i>BioTechniques</i> , 14(3):370, 1993.
	C42	De Libero and Kaufmann, "Antigen-specific LYT-2 ⁺ cytolytic T lymphocytes from mice infected with the intracellular bacterium <i>Listeria Monocytogenes</i> ," <i>J. Immun.</i> , 137(8):2688-2694, 1986.
	C43	Denzin <i>et al.</i> , "Single-chain site-specific mutations of fluorescein-amino acid contact residues in high affinity monoclonal antibody 4-4-20," <i>J. Biol. Chem.</i> , 266(21):14095-14103, 1991.
PTD	C44	Derbyshire <i>et al.</i> , "A simple and efficient procedure for saturation mutagenesis using mixed oligodeoxynucleotides," <i>Gene</i> , 46:145-152, 1986.

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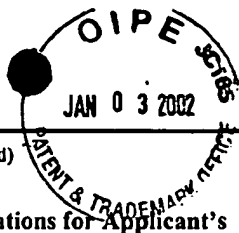
Exam. Init.	Ref. Des.	Citation
PM	C45	Devlin <i>et al.</i> , "Random peptide libraries: A source of specific protein binding molecules," <i>Science</i> , 249:404-406, 1990.
	C46	Dougan <i>et al.</i> , "Live bacterial vaccines and their applications as carriers for foreign antigens," <i>Ad Vet Sci Compara Med</i> , 33:271-300, 1989.
	C47	Dunn, "Phage display of proteins," <i>Curr. Opin. Biotechnol.</i> , 7(5):547-553, 1996.
	C48	Eckart and Bussineaus, "Quality and authenticity of heterologous proteins synthesized in yeast," <i>Curr. Opin. BioTech.</i> , 7(5):525-530, 1996.
	C49	Ehrman <i>et al.</i> , "Genetic analysis of membrane protein topology by a sandwich gene fusion approach," <i>Proc Natl Acad Sci USA</i> , 87:7574-7578, 1990.
	C50	Filloux <i>et al.</i> , "Protein secretion in gram-negative bacteria: transport across the outer membrane involves common mechanisms in different bacteria," <i>EMBO J.</i> , 9(13):4323-4329, 1990.
	C51	Fischetti <i>et al.</i> , "Expression of foreign proteins on gram-positive commensal bacteria for mucosal vaccine delivery," <i>Curr. Opin. Biotechnol.</i> , 4(5):603-610, 1993.
	C52	Fischetti, "Gram-positive commensal bacteria deliver antigens to elicit mucosal and systemic immunity," <i>ASM News</i> 62:405-410, 1996.
	C53	Francisco and Georgiou, "The expression of recombinant proteins on the external surface of <i>Escherichia coli</i> . Biotechnological applications," <i>Ann. NY Acad. Sci.</i> , 745:372-382, 1994.
	C54	Francisco <i>et al.</i> , "Production and fluorescence-activated cell sorting of <i>Escherichia coli</i> expressing a functional antibody fragment on the external surface," <i>Proc. Natl. Acad. Sci. USA</i> , 90:10444-10448, 1993.
	C55	Francisco <i>et al.</i> , "Specific adhesion and hydrolysis of cellulose by intact <i>Escherichia coli</i> expressing surface anchored cellulase or cellulose binding domains," <i>Bio/Technology</i> , 11:491-495, 1993.
	C56	Francisco <i>et al.</i> , "Transport and anchoring of β -lactamase to the external surface of <i>Escherichia coli</i> , <i>Proc. Natl. Acad. Sci. USA</i> , 89:2713-2717, April 1992.
	C57	Freudl <i>et al.</i> , "The nature of information, required for export and sorting, present within the outer membrane protein OmpA of <i>Escherichia coli</i> K-12," <i>EMBO J.</i> , 4(13):3593-3598, 1985.
PM	C58	Freudl, "Insertion of peptides into cell-surface-exposed areas of the <i>Escherichia coli</i> OmpA protein does not interfere with export and membrane assembly," <i>Gene</i> , 82:229-236, 1989.

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P70	C59	Fuchs <i>et al.</i> , "Targeting recombinant antibodies to the surface of <i>Escherichia coli</i> : fusion to a peptido-glycan-associated lipoprotein," <i>Bio/Technology</i> , 9:1369-1372, 1991.
	C60	Gellissen <i>et al.</i> , "Heterologous protein production in yeast," <i>Antonie Van Leeuwenhoek</i> , 62(102):79-93, 1992.
	C61	Georgiou <i>et al.</i> , "Folding and aggregation of β -lactamase: Analogies with the formation of inclusion bodies in <i>Escherichia coli</i> ," <i>Protein Science</i> , 3:1953-1960, 1994.
	C62	Georgiou <i>et al.</i> , "Display of heterologous proteins on the surface of microorganisms: from the screening of combinatorial libraries to live recombinant vaccines," <i>Nat. Biotechnol.</i> , 15(1):29-34, 1997.
	C63	Georgiou <i>et al.</i> , "Practical applications of engineering gram-negative bacterial cell surfaces," <i>Trends BioTech.</i> , 11(1):6-10, 1993.
	C64	Ghrayeb and Inouye, "Nine amino acid residues at the NH ₂ -terminal of lipoprotein are sufficient for its modification, processing, and localization in the outer membrane of <i>Escherichia coli</i> ," <i>J. Biol Chem</i> , 259(1):463-467, 1984.
	C65	Goeddel <i>et al.</i> , "Direct expression in <i>Escherichia coli</i> of DNA sequence coding for human growth hormone," <i>Nature</i> , 281:544-548, 1979.
	C66	Goward <i>et al.</i> , "Molecular evolution of bacterial cell-surface proteins," <i>Trends Biochem. Sci.</i> , 18(4):136-140, 1993.
	C67	Gram <i>et al.</i> , "In vitro selection and affinity maturation of antibodies from a naive combinatorial immunoglobulin library," <i>Proc. Natl. Acad. Sci. USA</i> , 89(3576-3580, 1992.
	C68	Hansson <i>et al.</i> , "Expression of recombinant proteins on the surface of the coagulase-negative bacterium <i>Staphylococcus xylosus</i> ," <i>J. Bacteriol.</i> , 174(13):4239-4245, 1992.
	C69	Hill <i>et al.</i> , "Mutagenesis with degenerate oligonucleotides: an efficient method for saturating a defined DNA region with base pair substitutions," <i>Meth. Enzymol.</i> , 155:558-568, 1987.
	C70	Hill <i>et al.</i> , "Saturation mutagenesis of the yeast <i>his3</i> regulatory site: requirements for transcriptional induction and for binding by GCN4 activator protein," <i>Science</i> , 234:451-457, 1986.
P70	C71	Ho <i>et al.</i> , "Site-directed mutagenesis by overlap extension using the polymerase chain reaction," <i>Gene</i> , 77:51-59, 1989

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EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
PTD	C72	Hockney, "Recent developments in heterologous protein production in <i>Escherichia coli</i> ," <i>Trends Biotechnol.</i> , 12(11):456-463, 1994.
	C73	Hofnung, "Expression of foreign polypeptides at the <i>Escherichia coli</i> cell surface," <i>Methods Cell Biol.</i> , 34:77-105, 1991.
	C74	Hoogenboom <i>et al.</i> , "By-passing Immunisation. Human antibodies from synthetic repertoires of Germ-line V _H Gene segments rearranged in Vitro," <i>J. Mol. Biol.</i> , 227:381-388, 1992
	C75	Huse <i>et al.</i> , "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda," <i>Science</i> , 246:1275-1281, 1989.
	C76	Huse, "Combinatorial antibody expression libraries in filamentous phage," <i>In: Antibody Engineering: A Practical Guide</i> , Borrebaeck (Ed.), pp. 103-120, 1992.
	C77	Huston <i>et al.</i> , "Protein engineering of single-chain Fv analogs and fusion proteins," <i>Molecular Design and Modeling: Concepts and Applications Part B Antibodies and Antigens, Nucleic Acids, Polysaccharides, and Drugs, Methods in Enzymology</i> , Langone, Ed., Academic Press, Inc. San Diego 203:46-98, 1991.
	C78	Huston <i>et al.</i> , "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in <i>E. Coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 85:5879-5883, 1998.
	C79	Hutchison <i>et al.</i> , "A complete library of point substitution mutations in the glucocorticoid response element of mouse mammary tumor virus," <i>Proc. Natl. Acad. Sci. USA</i> , 83:710-714, 1986.
	C80	Ikeda <i>et al.</i> , "A fusion protein library: an improved method for rapid screening and characterization of DNA binding or interacting proteins," <i>Gene.</i> , 181(1-2):167-171, 1996.
	C81	Inouye <i>et al.</i> , "Amino acid sequence for the peptide extension on the prolipoprotein of the <i>E. coli</i> outer membrane," <i>Proc. Natl. Acad. Sci. USA</i> , 74(3):1004-1008, 1977.
	C82	Irving <i>et al.</i> , "Protein engineering: the selection of proteins with improved binding affinity using complex expression libraries," <i>Australas Biotechnol.</i> , 3(2):86-93, 1993.
PTD	C83	Itakura <i>et al.</i> , "Expression in <i>Escherichia coli</i> of a chemically synthesized gene for the hormone somatostatin," <i>Science</i> , 198:1056-1063, 1977.

25096131.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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Exam. Init.	Ref. Des.	Citation
PTM	C84	Ito <i>et al.</i> , "A general method for introducing a series of mutations into cloned DNA using the polymerase chain reaction," <i>Gene</i> , 102:67-70, 1991.
	C85	Iverson <i>et al.</i> , "A Combinatorial System for Cloning and Expressing the Catalytic Antibody Repertoire in <i>Escherichia coli</i> ," <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , Vol. LIV., 273-280. 1989.
	C86	Iverson <i>et al.</i> , "Metalloantibodies," <i>Science</i> , 249:659-662, 1990.
	C87	Jacobs <i>et al.</i> , "Human metallothionein-II is synthesized as a stable membrane-localized fusion protein in <i>Escherichia coli</i> ," <i>Gene</i> , 83:95-103, 1989.
	C88	Jonsson and Kronvall, "The use of protein A-containing <i>Staphylococcus aureus</i> as a solid phase anti-IgG reagent in radioimmunoassays as exemplified in the quantitation of α -fetoprotein in normal human adult serum," <i>J. Eur. Immunol.</i> , 4:29-33, 1974.
	C89	Kang <i>et al.</i> , "Linkage of recognition and replication functions by assembling combinatorial antibody Fab libraries along phage surfaces," <i>Proc. Natl. Acad. Sci. USA</i> , 88:4363-4366, 1991.
	C90	Kauffman, "Applied molecular evolution," <i>J. Theor. Biol.</i> , 157:1-7, 1992.
	C91	Kessler, "Rapid isolation of antigens from cells with a <i>Staphylococcal</i> protein A-antibody adsorbent: parameters of the interaction of antibody-antigen complexes with Protein A," <i>J. Immunology</i> , 115(6):1617-1624, 1975.
	C92	Kingsman and Kingsman, "Polyvalent recombinant antigens: a new vaccine strategy," <i>Vaccine</i> , 6(4):304-306, 1988.
	C93	Klose <i>et al.</i> , "Internal deletions in the gene for an <i>Escherichia coli</i> outer membrane protein define an area possibly important for recognition of the outer membrane by this polypeptide," <i>J. Biol. Chem.</i> , 263(26):13291-13296, 1988.
	C94	Klose <i>et al.</i> , "The influence of amino substitutions within the mature part of an <i>Escherichia coli</i> outer membrane protein (OmpA) on assembly of the polypeptide into its membrane," <i>J. Biol. Chem.</i> , 263(26):13297-13302, 1988.
PTM	C95	Kornacher and Pugsley, "Molecular characterization of <i>pulA</i> and its product, pullulanase, a secreted enzyme of <i>Klebsiella pneumoniae</i> UNF5023," <i>Mol. Micro.</i> , 4(1):73-85, 1989.

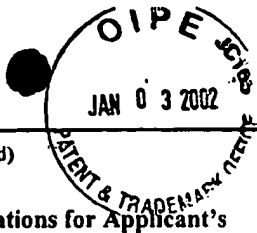
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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
P70	C96	Kornacker and Pugsley, "The normally periplasmic enzyme β -lactamase is specifically and efficiently translocated through the <i>Escherichia coli</i> outer membrane when it is fused to the cell-surface enzyme pullulanase," <i>Mol. Microbiol.</i> , 4(7):1101-1109, 1990.
	C97	Koths, "Recombinant proteins for medical use: the attractions and challenges," <i>Curr. Opin. Biotechnol.</i> , 6(6):681-687, 1995.
	C98	Kronvall <i>et al.</i> , "Specific absorption of human serum albumin, immunoglobulin A, and immunoglobulin G with selected strains of group A and G streptococci," <i>Infect Immun.</i> , 25(1):1-10, 1979.
	C99	Kwoh <i>et al.</i> , "Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format," <i>Proc. Natl. Acad. Sci. USA</i> , 86:1173-117, 1989.
	C100	LaBean and Kauffman, "Design of synthetic gene libraries encoding random sequence proteins with desired ensemble characteristics," <i>Protein Sci.</i> , 2:1249-1254, 1993.
	C101	LaBean <i>et al.</i> , "Design, expression, and characterization of random sequence polypeptides as fusions with ubiquitin," <i>FASEB</i> , 6(1):Abstract # 2714, 1992.
	C102	Larrick <i>et al.</i> , "Rapid cloning of rearranged immunoglobulin genes from human hybridoma cells using mixed primers and the polymerase chain reaction," <i>Biochem. BioPhys. Res. Comm.</i> , 160(3):1250-1256, 1989.
	C103	Laukkanen <i>et al.</i> , "Lipid-tagged antibodies: bacterial expression and characterization of a lipoprotein-single-chain antibody fusion protein," <i>Protein Engineer</i> , 6:449-454, 1993.
	C104	Lerner <i>et al.</i> , "Antibodies without immunization," <i>Science</i> , 258:1313-1314, 1992.
	C105	Liao <i>et al.</i> , "Isolation of a thermostable enzyme variant by cloning and selection in a thermophile," <i>Proc. Natl. Acad. Sci. USA</i> , 83:576-580, 1986.
	C106	Little <i>et al.</i> , "Human antibody libraries in <i>Escherichia coli</i> ," <i>J. Biotech.</i> , 41:1987-195, 1995.
	C107	Little <i>et al.</i> , "Bacterial surface presentation of proteins and peptides: an alternative to phage technology," <i>Trends BioTech.</i> , 11(1):3-5, 1993.
P70	C108	Lu <i>et al.</i> , "Expression of thioredoxin random peptide libraries on the <i>Escherichia coli</i> cell surface as functional fusions to flagellin: A system designed for exploring protein-protein interactions," <i>BioTechnology</i> , 13:366-372, 1995.

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EXAMINER:

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
mm	C109	Lugtenberg and van Alphen, "Molecular architecture and functioning of the outer membrane of <i>E. coli</i> , and other gram-negative bacteria," <i>Biochimica Biophysica A.</i> , 737:51-115, 1983.
	C110	Marks <i>et al.</i> , "By-passing Immunization. Human antibodies for V-gene libraries displayed on phage," <i>J. Mol. Biol.</i> , 222:581-597, 1991.
	C111	Martin <i>et al.</i> , "Surface bacterial antigen CS31A as a tool to design new recombinant vaccines displaying heterologous antigenic determinants," <i>Vet. Res.</i> , 26(3):209-210, 1995.
	C112	Matteucci and Heyneker, "Targeted random mutagenesis: the use of ambiguously synthesized oligonucleotides to mutagenize sequences immediately 5' of an ATG initiation codon," <i>Nucl. Acids Res.</i> , 11(10):3113-3121, 1983.
	C113	Matthews, "Studies on protein stability with T4 lysozyme," <i>Adv. Prot. Chem.</i> , 46:249-278, 1995.
	C114	McCafferty <i>et al.</i> , "Phage antibodies: filamentous phage displaying antibody variable domains," <i>Nature</i> , 348:552-554, 1990.
	C115	McGregor, "Selection of proteins and peptides from libraries displayed on filamentous bacteriophage," <i>Mol. Biotechnol.</i> , 6(2):155-162, 1996.
	C116	McManus and Riechmann, "Use of 2D NMR, protein engineering, and molecular modeling to study the hapten-binding site of an antibody F _v fragment against 2-phenyloxazolone," <i>Biochem.</i> , 30:5851-5857, 1991.
	C117	Moore and Arnold, "Direct evolution of a para-nitrobenzyl esterase for aqueous-organic solvents," <i>Nature Biotechnol.</i> , 14:458-467, 1996.
	C118	Morona <i>et al.</i> , " <i>Escherichia coli</i> K-12 outer membrane protein (OmpA) as a bacteriophage receptor: Analysis of mutant genes expressing altered proteins," <i>J. Bacteriology</i> , 159(2):570-578, 1984.
	C119	Morrison and Desrosiers, "A PCR-based strategy for extensive mutagenesis of a target DNA sequence," <i>BioTech.</i> , 14(3):454-457, 1993.
	C120	Mullinax <i>et al.</i> , "Identification of human antibody fragment clones specific for tetanus toxoid in a bacteriophage λ immunoespression library," <i>Proc. Natl. Acad. Sci. USA</i> , 87:8095-8099, 1990.
mm	C121	Murphy and Klebba, "Export of FepA::PhoA fusion proteins to the outer membrane of <i>Escherichia coli</i> K-12," <i>J. Bac.</i> , 171(11):5894-5900, 1989.

25096131.1

EXAMINER:

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2/28/05

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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P70	C122	Myers <i>et al.</i> , "A general method for saturation mutagenesis of cloned DNA fragments," <i>Science</i> , 229:242-247, 1985.
	C123	Neuberger <i>et al.</i> , "Recombinant antibodies possessing novel effector functions," <i>Nature</i> , 312:604-608, 1984.
	C124	Newton <i>et al.</i> , "Immune response to cholera toxin epitope inserted in Salmonella flagellin," <i>Science</i> , 244:70-72, 1989.
	C125	Newton <i>et al.</i> , "Topology of the membrane protein LamB by epitope tagging and a comparison with the X-ray model," <i>J. Bacteriol.</i> , 178:3447-3456, 1996.
	C126	Newton <i>et al.</i> , "Expression and immunogenicity of an 18-residue epitope of HIV1 gp41 inserted in the flagellar protein of a <i>Salmonella</i> live vaccine," <i>Res. Microbiol.</i> , 146:203-216, 1995.
	C127	Nguyen <i>et al.</i> , "Cell-surface display of heterologous epitopes on <i>Staphylococcus xylosus</i> as a potential delivery system for oral vaccination," <i>Gene</i> , 128(1):89-94, 1993.
	C128	Nguyen <i>et al.</i> , "Hydrophobicity engineering to facilitate surface display of heterologous gene products on <i>Staphylococcus xylosus</i> ," <i>J. Biotechnol.</i> , 42(3):207-219, 1995.
	C129	Nishiyama and Tokuda, "Dynamic structure change of protein secretion machinery," [article in Japanese], <i>Tanpakushitsu Kakusan Koso</i> , 42(1):1-11, 1997 (An English translation of the abstract is attached thereto).
	C130	O'Callaghan <i>et al.</i> , "Immunogenicity of foreign peptide epitopes expressed in bacterial envelope proteins," <i>Res. Microbiol.</i> , 141:963-969, 1990.
	C131	O'Callaghan <i>et al.</i> , "Novel method for detection of β -Lactamases by using a chromogenic cephalosporin substrate," <i>Antimicrobial Agents and Chemotherapy</i> , 1(4):283-288, 1972.
	C132	Ohara <i>et al.</i> , "One-sided polymerase chain reaction: the amplification of cDNA," <i>Proc. Natl. Acad. Sci. USA</i> , 86:5673-5677, 1989.
	C133	Oliphant and Struhl, "The use of random-sequence oligonucleotides for determining consensus sequences," <i>Meth. Enzymol.</i> , 155(35):568-583, 1987.
	C134	Oliphant <i>et al.</i> , "Cloning of random-sequence oligodeoxynucleotides," <i>Gene</i> , 1662(44):177-183, 1986.
P70	C135	O'Neil and Hoess, "Phage display: protein engineering by directed evolution," <i>Curr. Opin. Struct. Biol.</i> , 5(4):443-449, 1995.

096131.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
PTD	C136	Orlandi <i>et al.</i> , "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> , 86:3833-3837, 1989.
	C137	Pallesen <i>et al.</i> , "Chimeric FimH adhesin of type 1 fimbriae: a bacterial surface display system for heterologous sequences," <i>Microbiology</i> , 141:2839-2848, 1995.
	C138	Palzkill <i>et al.</i> , "Selection of functional signal peptide cleavage sites from a library of random sequences," <i>J. Bacteriol.</i> , 176(3):563-568, 1994.
	C139	Parmley and Smith, "Antibody-selectable filamentous fd phage vectors: affinity purification of target genes," <i>Gene</i> , 73:305-318, 1988.
	C140	Persson <i>et al.</i> , "Generation of diverse high-affinity human monoclonal antibodies by repertoire cloning," <i>Proc. Natl. Acad. Sci. USA</i> , 88:2432-2436, March 1991.
	C141	Petrosino and Palzkill, "Systematic mutagenesis of the active site omega loop of TEM-1 β -Lactamase," <i>J. Bacteriol.</i> , 178:1821-1828, 1996.
	C142	Plückthun and Skerra, "Expression of functional antibody Fv and Fab fragments in <i>E. coli</i> ," <i>Meth. Enzym.</i> , 178:497-515, 1989.
	C143	Plückthun, "Antibodies from <i>E. coli</i> ," <i>Nature</i> , 347:497-498, 1990.
	C144	Posner <i>et al.</i> , "Catalytic antibodies: perusing combinatorial libraries," <i>Trends Biochem. Sci.</i> , 19(4):145-150, 1994.
	C145	Powers <i>et al.</i> , "Protein purification by affinity binding to unilamellar vesicles," <i>Biotechnology and Bioengineering</i> , 33:173-182, 1989.
	C146	Pozzi <i>et al.</i> , "Delivery and expression of a heterologous antigen on the surface of streptococci," <i>Infect. Immun.</i> , 60:1902-1907, 1992.
	C147	Prasher, "Technical Focus—Using GFP to see the light," <i>Trends in Genetics</i> , 11(8):295-334, 1995.
	C148	Reidhaar-Olson and Sauer, "Combinatorial cassette mutagenesis as a probe of the informational content of protein sequences," <i>Science</i> , 241:53-57, 1988.
	C149	Rice <i>et al.</i> , "Random PCR mutagenesis screening of secreted proteins by direct expression in mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> , 89:5467-5471, 1992.
PTD	C150	Riechmann <i>et al.</i> , "Reshaping human antibodies for therapy," <i>Nature</i> , 332:323-327, 1988.

25096131.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
PTD	C151	Robert <i>et al.</i> , "Surface display on staphylococci: a comparative study," <i>FEBS Lett.</i> , 390(3):327-333, 1996.
	C152	Roberts <i>et al.</i> , "Affinity maturation of proteins displayed on surface of M13 bacteriophage as major coat protein fusions," <i>Meth. Enzy.</i> , 267:68-82, 1996.
	C153	Russell <i>et al.</i> , "Production of recombinant products in yeasts: a review," <i>Aust. J. Biotechnol.</i> , 5(1):48-55, 1991.
	C154	Salmond and Reeves, "Membrane traffic wardens and protein secretion in Gram-negative bacteria," <i>Trends Biol. Sci.</i> , 18:7-12, 1993.
	C155	Samuelson <i>et al.</i> , "Cell surface display of recombinant proteins on <i>Staphylococcus carnosus</i> ," <i>J. Bacteriol.</i> , 177(6):1470-1476, 1995.
	C156	Samuni, "A direct spectrophotometric assay and determination of Michaelis constants for the β -Lactamase reaction," <i>Analytical Biochemistry</i> , 63:17-26, 1975.
	C157	Sastry <i>et al.</i> , "Cloning of the immunological repertoire in <i>Escherichia coli</i> for generation of monoclonal catalytic antibodies: Construction of a heavy chain variable region-specific cDNA library," <i>Proc. Natl. Acad. Sci. USA</i> , 86:5728-5732, August 1989.
	C158	Sastry <i>et al.</i> , "Screening combinatorial antibody libraries for catalytic acyl transfer reactions," <i>Ciba Found Symp.</i> , 159:145-151, 1991.
	C159	Schatz, "Construction and screening of biological peptide libraries," <i>Curr. Opin. BioTech.</i> , 5(5):487-494, 1994.
	C160	Schildbach <i>et al.</i> , "Modulation of antibody affinity by a non-contact residue," <i>Protein Science</i> , 2:206-214, 1993.
	C161	Schreuder <i>et al.</i> , "Immobilizing proteins on the surface of yeast cells," <i>Trends Biotechnol.</i> , 14:115-120, 1996.
	C162	Schreuder <i>et al.</i> , "Targeting of a heterologous protein to the cell wall of <i>Saccharomyces cerevisiae</i> ," <i>Yeast</i> , 9:399-409, 1993.
	C163	Schreuder <i>et al.</i> , "Yeast expressing hepatitis B virus surface antigen determinants on its surface: implications for a possible oral vaccine," <i>Vaccine</i> , 14:383-388, 1996.
PTD	C164	Scott and Craig, "Random peptide libraries," <i>Curr. Opin. BioTech.</i> , 5(1):40-48, 1994.

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EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
P7D	C165	Scott and Smith, "Searching for peptide ligands with an epitope library, <i>Science</i> , 249:386-390, 1990.
	C166	Sepetov <i>et al.</i> , "Library of libraries: approach to synthetic combinatorial library design and screening of 'pharmacophore' motifs," <i>Proc. Natl. Acad. Sci. USA</i> , 92(12):5426-5430, 1995.
	C167	Short <i>et al.</i> , "Contribution of antibody heavy chain CDR1 to digoxin binding analyzed by random mutagenesis of Phage-displayed Fab 26-10," <i>J. Biol. Chem.</i> , 270(48):28541-28550, 1995.
	C168	Short <i>et al.</i> , "λ ZAP: a bacteriophage λ expression vector with <i>in vivo</i> excision properties, <i>Nucl. Acids Res.</i> , 16:7583-7600, 1988.
	C169	Siebenlist <i>et al.</i> , "E. coli RNA polymerase interacts homologously with two different promoters," <i>Cell</i> , 20:269-281, 1980.
	C170	Skerra and Plückthun, "Assembly of a functional immunoglobulin F _v fragment in <i>E. coli</i> , <i>Science</i> , 240:1038-1041, 1988.
	C171	Smiley and Benkovic, "Selection of catalytic antibodies for a biosynthetic reaction from a combinatorial cDNA library by complementation of an auxotrophic <i>Escherichia coli</i> : antibodies for orotate decarboxylation," <i>Proc. Nat'l. Acad. Sci.</i> , 91(18):8319-8323, 1994.
	C172	Smith, "Surface presentation of protein epitopes using bacteriophage expression systems," <i>Curr. Opin. Biotechnol.</i> , 2(5):668-673, 1991.
	C173	Sousa <i>et al.</i> , "Enhanced metaladsorption of bacterial cells displaying poly-His peptides," <i>Nature Biotech.</i> , 14:1017-1020, 1996.
	C174	Stathopoulos <i>et al.</i> , "Characterization of <i>Escherichia coli</i> expressing an Lpp'OmpA(46-159)-PhoA fusion protein localized in the outer membrane," <i>Appl. Microbiol. Biotechnol.</i> , 45:112-119, 1996.
	C175	Steidler <i>et al.</i> , "Pap pili as a vector system for surface for surface exposition of an immunoglobulin G-binding domain of protein A of <i>Staphylococcus aureus</i> in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> , 175:7639-7643, 1993.
	C176	Stemmer, "DNA shuffling by random fragmentation and reassembly: In vitro recombination for molecular evolution," <i>Proc. Nat'l Acad. Sci. USA</i> , 91:10747-10751, 1994.
P7D	C177	Stemmer, "Rapid evolution of a protein in vitro by DNA shuffling," <i>Nature</i> , 370:389-391, 1994.

25096131.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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PTD	C178	Stone <i>et al.</i> , "Identification of functional regions in the transforming protein of Fujinami sarcoma virus by in-phase insertion mutagenesis," <i>Cell</i> , 37:549-558, 1984.
	C179	✓ Stover <i>et al.</i> , "New use of BCG for recombinant vaccines," <i>Nature</i> , 351:456-460, 1991.
	C180	✓ Su <i>et al.</i> , "Construction of stable LamB-Shiga toxin B subunit hybrids: analysis of expression in <i>Salmonella typhimurium</i> aroA strains and stimulation of B subunit-specific mucosal and serum antibody response," <i>Infect. Immun.</i> , 60(8):3345-3359, 1992.
	C181	Sudberry, "The expression of recombinant proteins in yeasts," <i>Curr. Opin. Biotechnol.</i> , 7(5):517-524, 1996.
	C182	✓ Tawfik <i>et al.</i> , "catELISA: a facile general route to catalytic antibodies," <i>Proc. Nat'l. Acad. Sci. USA</i> , 90:373-377, 1993.
	C183	✓ Taylor <i>et al.</i> , "The TraT lipoprotein as a vehicle for the transport of foreign antigenic determinants to the cell surface of <i>Escherichia coli</i> K-12: structure-function relationship in the TraT protein," <i>Mol. Microbiol.</i> , 4(8):1259-1268, 1990.
	C184	✓ Thiry <i>et al.</i> , "Cloning of DNA sequences encoding foreign peptides and their expression in the K88 Pili," <i>Applied and Environmental Microbiology</i> , 55(5):984-993, 1989.
	C185	✓ Tsao <i>et al.</i> , "The removal of adventitious viruses and virus-infected cells using a cellular adsorbent: a feasibility study," <i>Bio/Technology</i> , 6:1330-1333, 1988.
	C186	✓ Van Die <i>et al.</i> , "Expression of foreign epitopes in P-fimbriae of <i>Escherichia coli</i> ," <i>Mol. Gen. Genet.</i> , 222:297-303, 1990.
	C187	✓ Venkatachalam <i>et al.</i> , "Characterization of TEM-1 β -Lactamase mutants from positions 238 to 241 with increased catalytic efficiency for ceftazidime," <i>J. Biol. Chem.</i> , 269(38):23444-23450, 1994.
	C188	Vershon <i>et al.</i> , "Mutagenesis of the arc repressor using synthetic primers with random nucleotide substitutions," <i>Protein Eng.</i> , 15:243-256, 1986.
	C189	Vieira and Messing, "The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers," <i>Gene</i> , 19:259-268, 1982.
PTD	C190	Walker <i>et al.</i> , "Isothermal <i>in vitro</i> amplification of DNA by a restriction enzyme/DNA polymerase system," <i>Proc. Natl. Acad. Sci. USA</i> , 89:392-396, 1992.

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2/28/05

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
PTD	C191	Wang <i>et al.</i> , "Use of a gene-targeted phage display random epitope library to map an antigenic determinant on the bluetongue virus outer capsid protein VP5," <i>J. Immunol. Methods</i> , 178(1):1-12, 1995.
	C192	Ward <i>et al.</i> , "Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>E. coli</i> ," <i>Nature</i> , 341:544-546, 1989.
	C193	Waye <i>et al.</i> , "EcoK selection vectors for shotgun cloning into M13 and deletion mutagenesis," <i>Nucl. Acids Res.</i> , 13(23):8561-8571, 1985.
	C194	Wilcox and Studnicka, "Expression of foreign proteins in microorganisms," <i>Biotechnol. Appl. Biochem.</i> , 10(6):500-509, 1988.
	C195	Winter and Milstein, "Man-made antibodies," <i>Nature</i> , 349:293-299, 1991.
	C196	Wiseman, "The organization of production of genetically-engineered proteins in yeast," <i>Endeavour</i> , 16(4):190-193, 1992.
	C197	Wong <i>et al.</i> , " <i>Pseudomonas aeruginosa</i> outer membrane protein OprF as an expression vector for foreign epitopes: the effects of positioning and length on the antigenicity of the epitope," <i>Gene</i> , 158:55-60, 1995.
	C198	Wu and Wallace, "The ligation amplification reaction (LAR)-amplification of specific DNA sequences using sequential rounds of template-dependent ligation," <i>Genomics</i> , 4:560-569, 1989.
	C199	Yamaguchi <i>et al.</i> , "A single amino acid determinant of the membrane localization of lipoproteins in <i>E. coli</i> ," <i>Cell</i> , 53:423-432, 1988.
	C200	Yang <i>et al.</i> , "Electrochemiluminescence: A New Diagnostic and Research Tool, <i>Bio/Technology</i> , 12:193-194, February 1994.
	C201	Yarranton, "Mammalian recombinant proteins: vectors and expression systems," <i>Curr. Opin. Biotechnol.</i> , 1(2):133-140, 1990
	C202	You and Arnold, "Directed evolution of subtilisin E in <i>Bacillus subtilis</i> to enhance total activity in aqueous dimethylformamide," <i>Protein. Eng.</i> , 9:77-83, 1994.
	C203	Yoderian <i>et al.</i> , "Changing the DNA-binding specificity of a repressor," <i>Cell</i> , 35(Pt2):777-783, 1983.
PTD	C204	International Search Report dated November 12, 1998.

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EXAMINER:

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2/28/05

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090	C205	U.S. Patent Application Serial No. 08/447,402 filed May 23, 1995.

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